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Application No.: 10/531,353 Docket No.: FA1131USPCT

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Page 3

Listing of Claims

- 1. (Currently Amended): A process for producing a multi-coat system on a substrate comprising:
- (a) mixing a cross-linkable component of a coating composition with a crosslinking component of said coating composition to form a pot-mix, said crosslinkable component comprising an acid functional acrylic copolymer polymerized from a monomer mixture comprising consisting essentially of 2 weight percent to 12 weight percent of carboxylic acid group containing monomer based on total weight of the acid functional acrylic copolymer, and 0.2 weight percent to 2 weight percent of amorphous silica based on total weight of the crosslinkable component, wherein said acid functional acrylic copolymer has a GPC weight average molecular weight ranging from 20,000 to 100,000;
 - (b) applying a layer of said pot-mix over said substrate;
 - (c) flashing said layer of said pot-mix into a strike-in resistant layer;
- (d) applying a layer of a clearcoat composition over said strike-in resistant layer to form a multi-layer system on said substrate; and
 - (e) curing said multi-layer system into said multi-coat system.
- 2. (Original) The process of claim 1 wherein a time period of said flashing step ranges from 5 to 15 minutes.
- 3. (Original) The process of claim 1 wherein said curing step takes place under ambient conditions, at elevated temperatures, or under ambient conditions followed by elevated temperatures.
- 4. (Currently Amended): The process of claim 1 or 3, wherein said curing step takes place at elevated temperatures.
- 5. (Original) The process of claim 1 further comprising producing a primer coat on said substrate before said step (b).

Application No.: 10/531,353 Docket No.: FA1131USPCT

Page 4

- 6. (Original) The process of claim 1 further comprising producing an E-coat followed by a primer coat on said substrate with before said step (b).
- 7. (Currently Amended): The process of claim 1 wherein said acid functional acrylic copolymer has a GPC weight average molecular weight ranging from 8,900 20,000 to 100,000 and a polydispersity ranging from 1.05 to 10.0.
- 8. (Original) The process of claim 1 wherein sald acid functional acrylic copolymer has Tg ranging from -5° C to $+\ 100^{\circ}$ C.
- 9. (Original) The process of claim 1 wherein said monomer mixture comprises one or more functional (meth)acrylate monomers and one or more non-functional (meth)acrylate monomers.
- 10. (Currently Amended): The process of claim [[7]] 9 wherein said monomer mixture comprises 5 percent to 40 percent based on total weight of the acid functional acrylic copolymer of said functional (meth)acrylate monomers.
- 11. (Currently Amended): The process of claim [[8]] 9 wherein said functional (meth)acrylate monomer is provided with one or more crosslinkable groups selected from the group consisting of a primary hydroxyl, secondary hydroxyl and a combination thereof.
- 12. (Original) The process of claim 1 wherein sald crosslinking component comprises a polyisocyanate, melamine or a combination thereof.
- 13. (Currently Amended): The process of claim [[11]] 12 wherein a ratio of equivalents of isocyanate functionalities on said polyisocyanate per equivalents

Application No.: 10/531,353 Docket No.: FA1131USPCT

Page 5

of the functional groups on said acid functional acrylic copolymer ranges from 0.5/1 to 3.0/1.

- 14. (Currently Amended): The process of claim [[11]] 12 comprising 0.1 weight percent to 40 weight percent of said melamine, wherein said percentages are based on total weight of composition solids.
- 15. (Currently Amended): The process of claim 14 claim 1 further comprising accelerating said [[(d)]] (e) step by adding a catalytically active amount of a catalyst to said coating composition.
- 16. (Currently Amended): The process of claim 1 further comprising accelerating said [[(d)]] (e) step by adding a catalytically active amount of an acid catalyst to said clearcoat composition.
- 17. (Original) The process of claim 1 wherein said coating composition comprises pigment.
- 18. (Currently Amended): The process of claim 1, wherein said coating composition is formulated as an automotive OEM composition.
- 19. (Currently Amended): The process of claim 1, wherein said coating composition is formulated as an automotive refinish composition.
- 20. (Original) The process of claim 1, 17, 18 or 19 wherein said substrate is an automotive body.
- 21. (Currently Amended): The process of claim 1, 17, 18 or 19 wherein said coating composition is formulated as a low VOC coating composition

Application No.: 10/531,353 Docket No.: FA1131USPCT

Page 6

comprising a solvent ranging of from 0.1 kilograms (1.0 pounds per gallon) to 0.72 kilograms (6.0 pounds per gallon) per liter of said <u>coating</u> composition.

- 22. (New): A process for producing a multi-coat system on a substrate comprising:
- (a) mixing a cross-linkable component of a coating composition with a crosslinking component of said coating composition to form a pot-mix, said crosslinkable component comprising an acid functional acrylic copolymer polymerized from a monomer mixture, and 0.2 weight percent to 2 weight percent of amorphous silica based on total weight of the crosslinkable component, wherein said monomer mixture consists essentially of 2 weight percent to 12 weight percent of carboxylic acid group containing monomer based on total weight of the acid functional acrylic copolymer, functional (meth)acrylate monomer, alkyl (meth)acrylate, and styrene;
 - (b) applying a layer of said pot-mix over said substrate;
 - (c) flashing said layer of said pot-mix into a strike-in resistant layer,
- (d) applying a layer of a clearcoat composition over said strike-in resistant layer to form a multi-layer system on said substrate; and
 - (e) curing said multi-layer system into said multi-coat system.
- 23. (New): The process of claim 22, wherein said acid functional acrylic copolymer has a GPC weight average molecular weight ranging from 15,000 to 100,000.
- 24. (New): The process of claim 23, wherein said acid functional acrylic copolymer has a GPC weight average molecular weight ranging from 20,000 to 100,000.